

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers all known producers of steel mill products.

2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in comments.

Blast furnace and steel mills industry (NAICS 331111) —

Establishments engaged in manufacturing the following products should report: ingot (raw steel) and semifinished shapes (blooms, billets, slabs, etc.) (3311113); hot rolled sheet and strip, including tin mill products (3311115); hot rolled bars and bar shapes, plates, structural shapes and piling (3311117); wire made in plants producing wire rods or hot rolled bars (3311119); pipe and tubes made in plants producing semifinished shapes or plate (331111B); cold rolled steel sheet and strip made in plants producing hot rolled sheet or strip (331111D); cold finished steel bars and bar shapes made in plants producing hot rolled bars and bar shapes (331111F); and other steel mill products, except wire products (331111L).

Steel wire and related products industry (NAICS 331222) —

Establishments drawing wire from purchased rods, bars, or wire and which may be engaged in the further manufacture of products made from wire. This survey will require quantity and value of shipments of wire shipped as wire (3312225) and quantity and value of shipments of eight selected wire products as listed in the item description. Manufacturers producing all other wire products should report the quantity of steel wire consumed in manufacturing these other products.

Cold finishing of steel shapes industry (NAICS 331221) —

Establishments engaged in manufacturing cold rolled sheet and strip from purchased hot rolled sheet (3312211) and establishments producing cold drawn steel bar shapes from purchased hot rolled steel bars (3312213).

Steel pipe and tubes industry (NAICS 331210) — Establishments engaged in the production of welded or seamless steel pipe and tubes from purchased material (3312100).

If you did not produce any of the products listed in the item description as a final product or as an intermediate step in the production of your final product and you did not operate a steel furnace, you are not included in this survey. Please indicate in the remarks section what products you do produce and return the form.

b. Columnar structure of report

SECTION IA — STEEL PRODUCTS RECEIVED, CONSUMED, AND SHIPPED (Item codes 1100 through 3999)

Column (1); Domestic receipts — Producers should report the products listed in the item description which were received from interplant transfer and from purchase for use in producing products listed. Exclude imported products, items bought for "resale" and sold without further manufacture, and steel received for capital addition to plant. Receipts from service centers should be limited to tonnage received by the service centers from domestic producers. (Receipts of imported steel mill shapes should be reported in section IB.) Report quantity of steel consumed in short tons.

Column (2); Steel consumed in this plant — Report the specific steel mill shapes used for fabricated products or maintenance, repair, and operating supplies. Please note that fabricated products are those products not specifically listed in the item description. Examples of fabricated products are steel castings, steel forgings, electrical conduit wire, etc.

Columns (3) and (4); Total shipments including interplant transfers — The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

SECTION IB — IMPORT RECEIPTS (Item code 5999)

Report receipts of all imported steel mill shapes by grade. Exclude domestic receipts as reported in section IA. Receipts of mill shapes purchased from U.S. steel producing companies should be reported as domestic receipts unless the mill shapes were originally purchased by the U.S. producers from imports and were resold to secondary producers without further manufacture. Secondary producers should report the receipts of these materials as import receipts.

Column (1) — Report the sum of import receipts shown in columns (2), (3), and (4).

Column (2) — Report carbon steel.

Column (3) — Report alloy steel.

Column (4) — Report stainless steel.

SECTION II — PRODUCTION OF RAW STEEL BY TYPE OF FURNACE BY GRADE (Item codes 6100–6900) — Report total production of raw steel by type of furnace and by grade. If you do not have a steel furnace, please ignore this section.

3. Definitions

Report the items in accordance with the definitions used in the reports of the American Iron and Steel Institute (AISI). These definitions should be applied to what is reported as carbon, alloy, and stainless steel, as well as to the differentiation among sheet, strip, bars, etc. (Refer to "Instructions for Reporting Steel Shipment Statistics," volume 1, AISI 10 series.)

a. CARBON STEEL

All ferrous materials other than alloy and stainless which are usefully malleable and which contain by weight 2 percent or less of carbon. (In effect, all steel other than that complying with the definition for alloy or stainless.)

High strength steel (Carbon)

Flat-rolled of a thickness of less than 3 mm (approx. 1/8) and having a minimum yield point of 275 MPa (approx. 42 KSI) or of a thickness of 3 mm or more and having a minimum yield point of 355 MPa (approx. 56 KSI).

Note: In all carbon steels small quantities of certain residual elements, such as copper, nickel, molybdenum, chromium, etc., are unavoidably retained from raw materials. Those elements are considered as incidental.

b. ALLOY STEEL

Steels not complying with the definition of stainless steel and containing by weight one or more of the following elements in proportion shown:

0.3	percent or more of	aluminum
0.0008	percent or more of	boron
0.3	percent or more of	chromium
0.3	percent or more of	cobalt
0.4	percent or more of	copper
0.4	percent or more of	lead
1.65	percent or more of	manganese
0.08	percent or more of	molybdenum
0.3	percent or more of	nickel
0.06	percent or more of	niobium
0.6	percent or more of	silicon

Heat Resisting Steel

Alloy steels containing by weight less than 0.3 percent of carbon and 4 percent or more but less than 10.5 percent of chromium.

Tool Steel

Alloy steels which contain the following combinations of elements in the quantity by weight respectively indicated:

- (i) More than 1.2% carbon and more than 10.5% chromium; or
- (ii) Not less than 0.3% carbon and 1.25% or more but less than 10.5% chromium; or
- (iii) Not less than 0.85% carbon and 1% to 1.8% inclusive, manganese; or
- (iv) 0.9% to 1.2%, inclusive, chromium and 0.9% to 1.4%, inclusive, molybdenum; or
- (v) Not less than 0.5% carbon and not less than 3.5% molybdenum; or
- (vi) Not less than 0.5% carbon and not less than 5.5% tungsten

Note: Include valve steel for reporting purposes.

c. STAINLESS STEEL

Alloy steels containing by weight 1.2 percent or less of carbon and 10.5 percent or more of chromium, with or without other elements and a minimum of 50 percent iron. However, all tool steel and valve steel should be excluded.

Also include any steel of an **analysis** which falls readily into one of the grade groups tabulated in tables 1 and 2 of the STEEL PRODUCTS MANUAL FOR TOOL STEEL dated September 1988.

4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below:

Current Industrial Reports (Form MA331B)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
1110 through 1245 2110 through 2241 3110 through 3225	3311113 100
1323,1355,1360,1370,1385, 1390,1420,1430,1445,1450, 2321,2333,2375,2391,3335	3311115 100
1313 and 1314 1506 through 1546, 2314,2316,2318,2520,2530, 2535, 3320 and 3525	3311117 100
1741 through 1771, 2707, 3710 through 3740	3311119 100 3312225 100
1636 and 1696 2641 through 2649 3610 through 3660	331111B 100 3312100 100
1324,1397,2327,2393,3339	331111D 100 3312211 100
1551,2525, and 3550	331111F 100 3312213 100
1571 through 1616	331111L 100
1783	3312221 110
1787	3312221 112
1788	3312221 214
1784, 1786	3312221 222
1791	3312223 101
1792	3312223 103
1793	3312223 105
1794	3312223 107
1795	3312223 109
1796	3312223 111
1797	3312223 113

4. Comparability (cont.)

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below:

Current Industrial Reports (Form MA331B)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
1798	3312223 122
1799	3312223 124
1800	3312223 126
1801	3312223 128
1778	3312227 101
1779	3312227 110
1780	3312227 112
1889	3312229 110
1890	3312229 112
1777	331222B 110
1781	331222B 120
1782	331222B 122
1789	331222B 124
1790	331222B 126

REFERENCE LIST

FORM MA331B		STEEL MILL PRODUCTS			
Product code	Item code	Item description	Product code	Item code	Item description
		Section IA — STEEL PRODUCTS RECEIVED, CONSUMED, AND SHIPPED			
		CARBON STEEL			
3311113110	1110	Ingots	331111L110	1571	Rails, wheels, & track accessories:
			331111L120	1586	Rails:
			331111L130	1591	Standard tee (over 60 lbs. per yard)
			331111L140	1601	All other rails, including light (60 lbs. per yard and under)
3311113140	1210	Semifinished products	331111L150	1606	Joint bars
		Blooms, billets, sheet bars, tin mill bars, tube rounds, and skelp	331111L160	1611	Tie plates
3311113190	1230	Wire rods	331111L170	1616	Wheels (rolled and forged)
3311113150	1245	Slabs			Axles (rolled and forged)
					Track spikes
					Pipe and tubes:
			3312100110	1636	Line pipe:
			3312100120	1641	16" O.D. and under
3311117110	1313	Finished products	3312100130	1646	Over 16" O.D.
		Plates, cut lengths			Oil country goods
3311117120	1314	Plates, in coils	3312100150	1651	Pressure tubing:
			3312100160	1666	Seamless
					Welded
3311115110	1323	Sheet:			Mechanical tubing:
		Hot rolled, including hot rolled bands	33121001A0	1671	Seamless
3312211110	1324	Cold rolled	33121001B0	1686	Welded
			33121001F0	1691	Structurals
			33121001G0	1696	Miscellaneous, including standard pipe
					Wire:
3311115120	1355	Sheet and strip:			Plain:
3311115130	1360	Galvanized:	3312225110	1741	Flat wire
3311115140	1370	Hot dipped			Round wire:
3311115150	1385	Electrolytic	3312225120	1742	Thermally treated:
		Electrical	3312225130	1743	Under 1.5mm in diameter
		All other metallic coated, including long ternes			1.5mm or above
			3312225140	1744	Other round wire:
3311115160	1390	Strip:	3312225150	1745	Under 1.5mm in diameter
3312211120	1397	Hot rolled	3312225160	1746	1.5mm or above
		Cold rolled			Other shape wire
					Plated or coated with zinc:
33111151C0	1420	Tin mill products:			Round wire:
33111151D0	1430	Black plate	3312225170	1763	Under 1.5mm in diameter
		Electrolytic and hot dipped tin plate	3312225180	1764	1.5mm or above
33111151E0	1445	Tin free steel	3312225190	1766	Other shape wire, including flat wire
33111151F0	1450	All other tin mill products, including short ternes and foil			Other coated wire:
			33122251A0	1767	Flat wire
3311117130	1506	Structural shapes (heavy):	33122251B0	1768	Round wire
3311117140	1508	Wide flange	33122251C0	1771	Other shape wire
		Standard			Wire products:
33111171E0	1512	Sheet piling and bearing piles			Wire rope, cable, and strand:
			3312221110	1783	Wire rope and cable
3311117190	1516	Bars:	3312221112	1787	Wire rope assemblies, including lifting slings
		Hot rolled, except concrete reinforcing			Wire forms and composite rope and cable
33111171A0	1521	Light structurals, under 3"	3312221214	1788	
33111171B0	1546	Concrete reinforcing			
3312213110	1551	Cold finished			

REFERENCE LIST — Continued

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Product code	Item code	Item description	Product code	Item code	Item description
		Section IA — STEEL PRODUCTS RECEIVED, CONSUMED, AND SHIPPED — Continued	331222B124 331222B126	1789 1790	Garment hangers Other wire products, including guards, baskets, florists' designs, paperclips, kitchenware, wire shelving, wire racks, wire chain, wire carts, wire cages, etc.
3312221230 3312221240	1784 1786	Wire strand: For prestressed concrete Other, including composite wire strand, except ACSR, and guard rail cable	3311113120	2110	ALLOY STEEL
3312223101	1791	Nails, staples, tacks, spikes, and brads: Round wire nails, collated, prepackaged Round wire nails, not collated, smooth shank: Coated, plated, or painted: Galvanized Vinyl, resin or cement coated Other	3311113160 33111131A0 3311113170	2237 2239 2241	Ingots Semifinished products Blooms, billets, sheet bars, tube rounds, and skelp Wire rods Slabs
3312223103 3312223105	1792 1793	Not coated, plated or painted Round wire nails, not collated, other than smooth shank: Coated, plated or painted Not coated, plated, or painted	3311117150 3311117160 3311117170	2314 2316 2318	Finished products Plates, cut lengths Plates, in coils Structural shapes, 3" and under
3312223107 3312223109	1794 1795	Coated, plated or painted Not coated, plated, or painted	3311115170 3312211130	2321 2327	Sheet: Hot rolled Cold rolled
3312223111 3312223113	1796 1797	Steel cut nails, including horseshoe nails Steel wire staples Steel tacks, wire and cut Steel spikes and brads, including track spikes	3311115180 3311115190	2333 2375	Sheet and Strip: Galvanized hot dipped All other metallic coated, including electrolytic Strip: Hot rolled Cold rolled
3312223122	1798	Fencing and fence gates: Chain link fencing, including galvanized and plastics coated	33111151A0 3312211140	2391 2393	Bars: Hot rolled, including structural shapes under 3" Cold finished
3312223124 3312223126 3312223128	1799 1800 1801	Wire fence, woven and welded, including galvanized and plastics coated Fence gates, posts, and fittings and ornamental lawn fence	33111171C0 3312213120	2520 2525	Tool steel: High speed Other than high speed
3312227101	1778	Woven wire products: Woven wire netting Other woven wire products	33111171F0 33111171G0	2530 2535	Pipe and tubes: Oil country goods and line pipe Pressure tubing Mechanical tubing Miscellaneous including standard and structural
3312227110	1779	Other wire products: Barbed and twisted wire Bale ties Welded steel wire fabrics, including concrete reinforcing mesh	3312100140 3312100170 33121001C0 33121001H0	2641 2643 2646 2649	Wire, plain or coated
3312227112	1780		33122251D0	2707	

REFERENCE LIST — Continued

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Product code	Item code	Item description	Product code	Item code	Item description
		Section IA — STEEL PRODUCTS RECEIVED, CONSUMED, AND SHIPPED — Continued	XXX	5999	SECTION IB — IMPORT RECEIPTS OF STEEL MILL PRODUCTS BY GRADE
		STAINLESS STEEL			SECTION II — PRODUCTION OF RAW STEEL BY TYPE OF FURNACE
3311113130	3110	Ingots	XXX	6100	Basic oxygen
		Semifinished products	XXX	6205	Open hearth
3311113180	3220	Blooms, billets, slabs, sheet bars, tube rounds, and skelp	XXX	6500	Electric
33111131B0	3225	Wire rods	XXX	6700	Other — <i>Specify</i>
		Finished products	XXX	6900	TOTAL PRODUCTION OF RAW STEEL BY TYPE OF FURNACE
3311117180	3320	Plates and structurals			
33111151B0	3335	Sheet and strip:			
3312211150	3339	Hot rolled			
		Cold rolled			
		Bars:			
33111171D0	3525	Hot rolled			
3312213130	3550	Cold finished			
		Pipe and tubes:			
		Pressure tubing:			
3312100180	3610	Seamless			
3312100190	3620	Welded			
		Mechanical tubing:			
33121001D0	3630	Seamless			
33121001E0	3640	Welded			
33121001F0	3660	Other pipe and tubes			
		Wire:			
		Round wire:			
33122251E0	3710	Under 0.75mm in diameter			
33122251F0	3720	0.75mm to under 1.5mm			
33122251G0	3730	1.5mm and above			
33122251H0	3740	Other shape wire, including flat wire			